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(71)Applicant : NKK CORP

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TODOROKI ATSUSHI**(54) DIESEL ENGINE FOR DIMETHYL ETHER****(57)Abstract:**

PROBLEM TO BE SOLVED: To minimize fuel leakage and to provide output equal to gas oil by setting injection valve opening pressure of a fuel injection pump to specific value times cylinder inside maximum pressure of an engine, and setting fuel injection maximum pressure and a quantity injected into a cylinder of the engine to specific value times a diesel engine using gas oil as fuel.

SOLUTION: In a diesel engine using dimethyl ether(DME) as main fuel, injection starting time pressure, that is, injection valve opening pressure in a fuel injection pump is set to 1.5 to 2 times cylinder inside maximum pressure to restrain a leakage quantity. In injection maximum pressure, since the DME is lower in a boiling point than gas oil and is strong in mixability with air in a cylinder, DME fuel is set to about 0.4 to 0.6 time maximum injection pressure at gas oil time with the volume elastic modulus ratio of the DME to gas oil as a basis. Since the DME becomes an energy input quantity of about 50% in terms of energy even if same injection quantity is injected as gas oil from the injection pump, a DME injection quantity is set to a range of 1.6 to 2 times gas oil.

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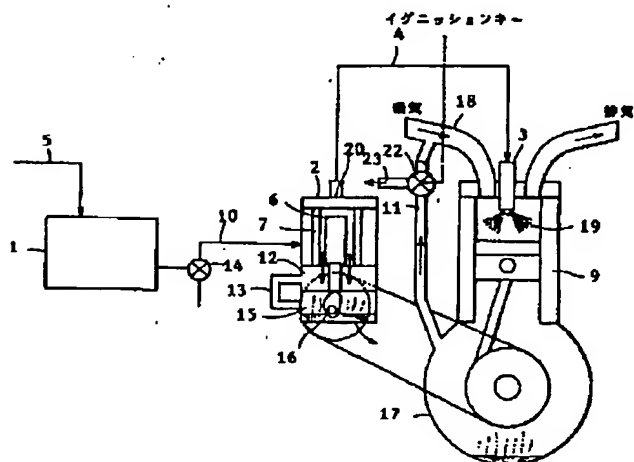
CLAIMS

[Claim(s)]

[Claim 1] The Diesel engine for wood ether with which the fuel-injection maximum pressure injected in an engine cylinder is characterized by making the total fuel oil consumption 0.4 to 0.6 times into 1.6 to twice compared with the Diesel engine with which the injection injection-valve opening pressure of a fuel injection pump is made into twice [1.5 to] the maximum high pressure [inside / of an engine cylinder], and uses gas oil as a fuel

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